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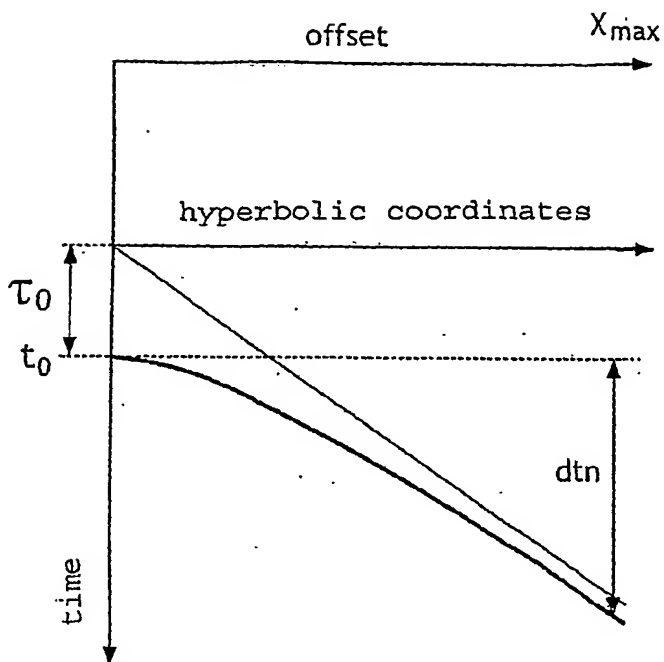


FIG. 1a

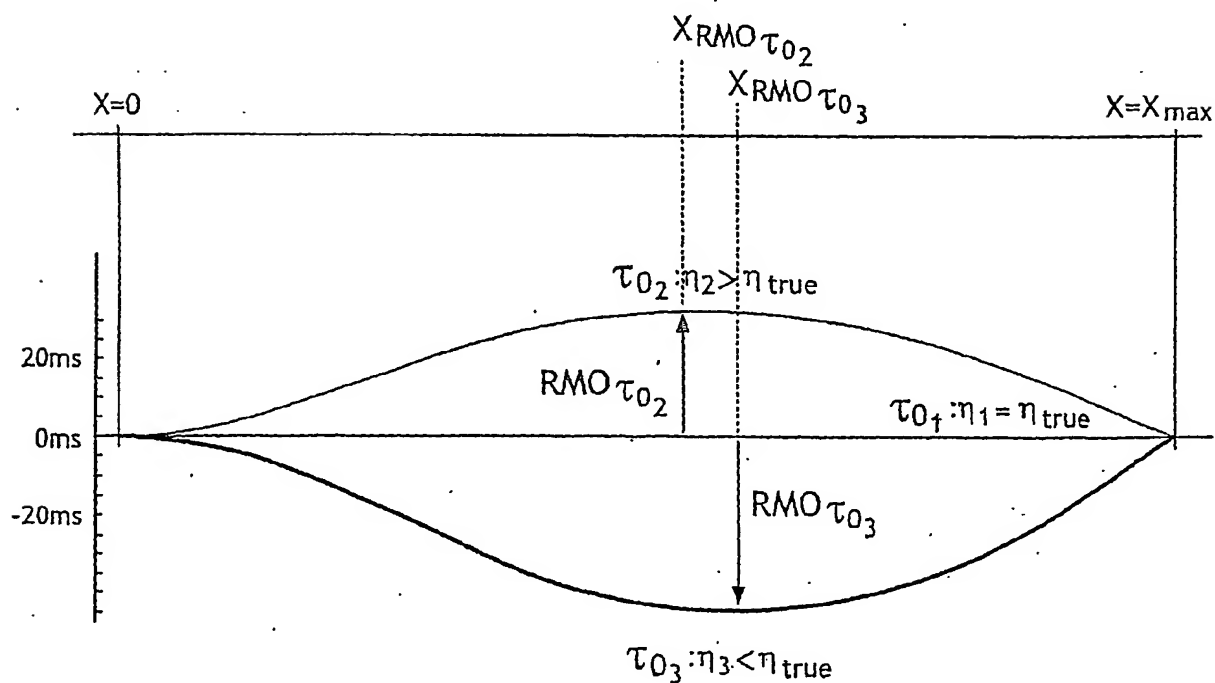
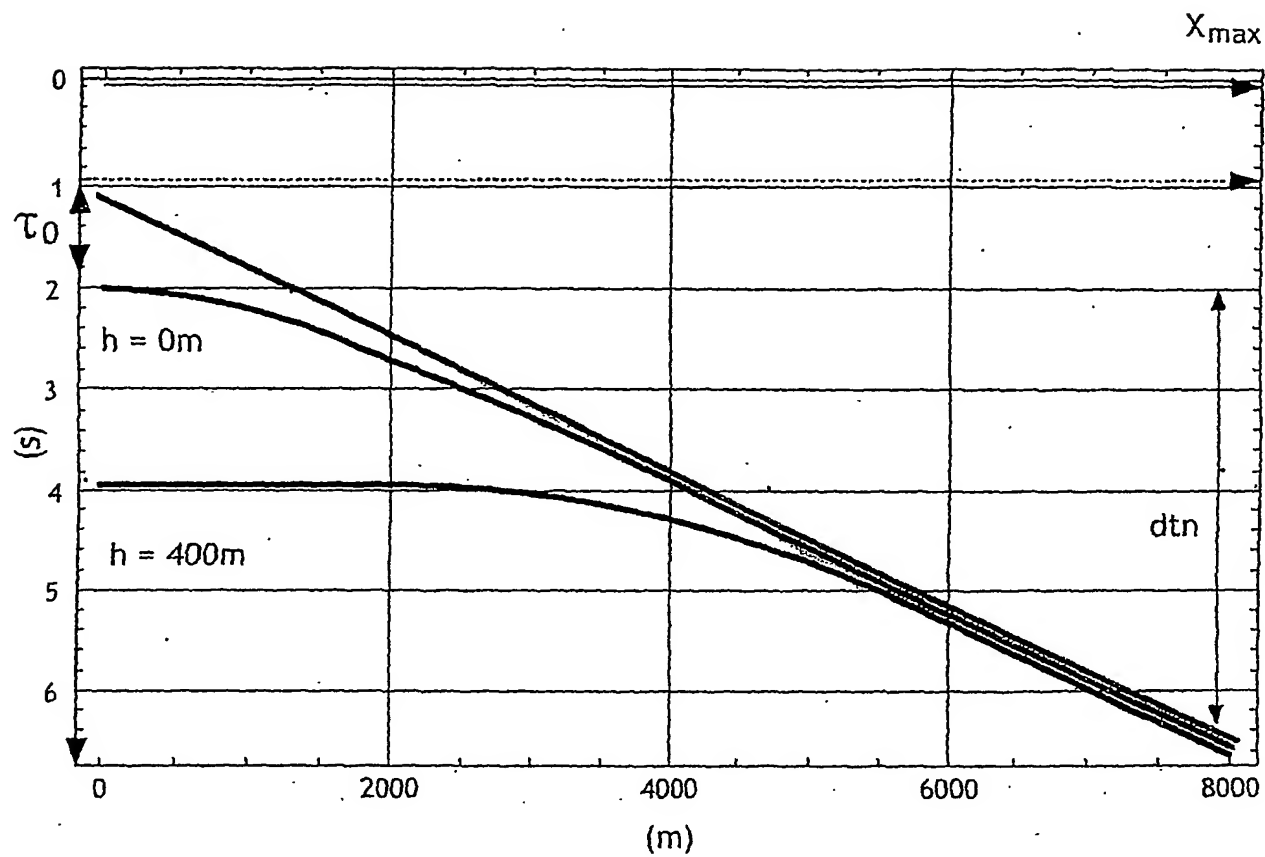


FIG. 2

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FIG. 1b

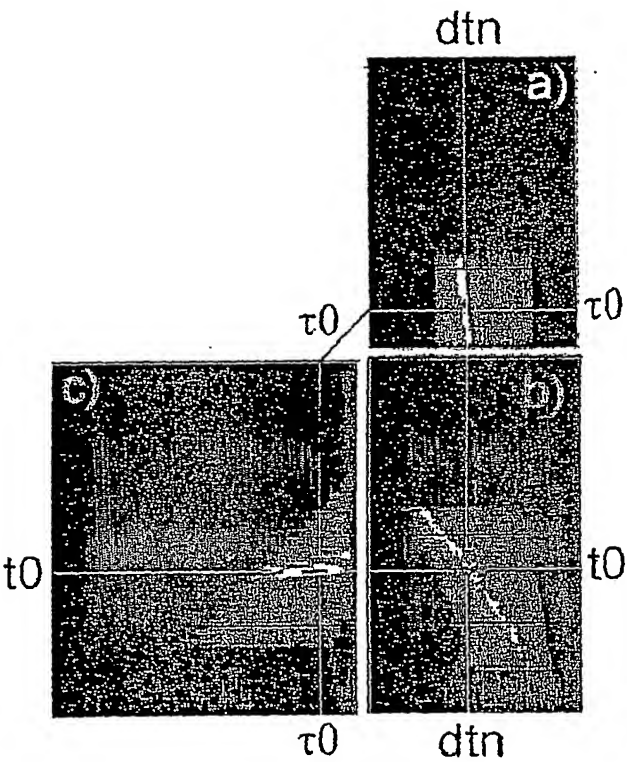


FIG. 3a

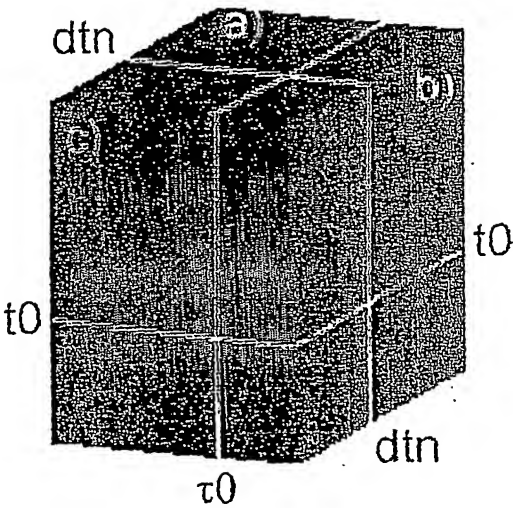
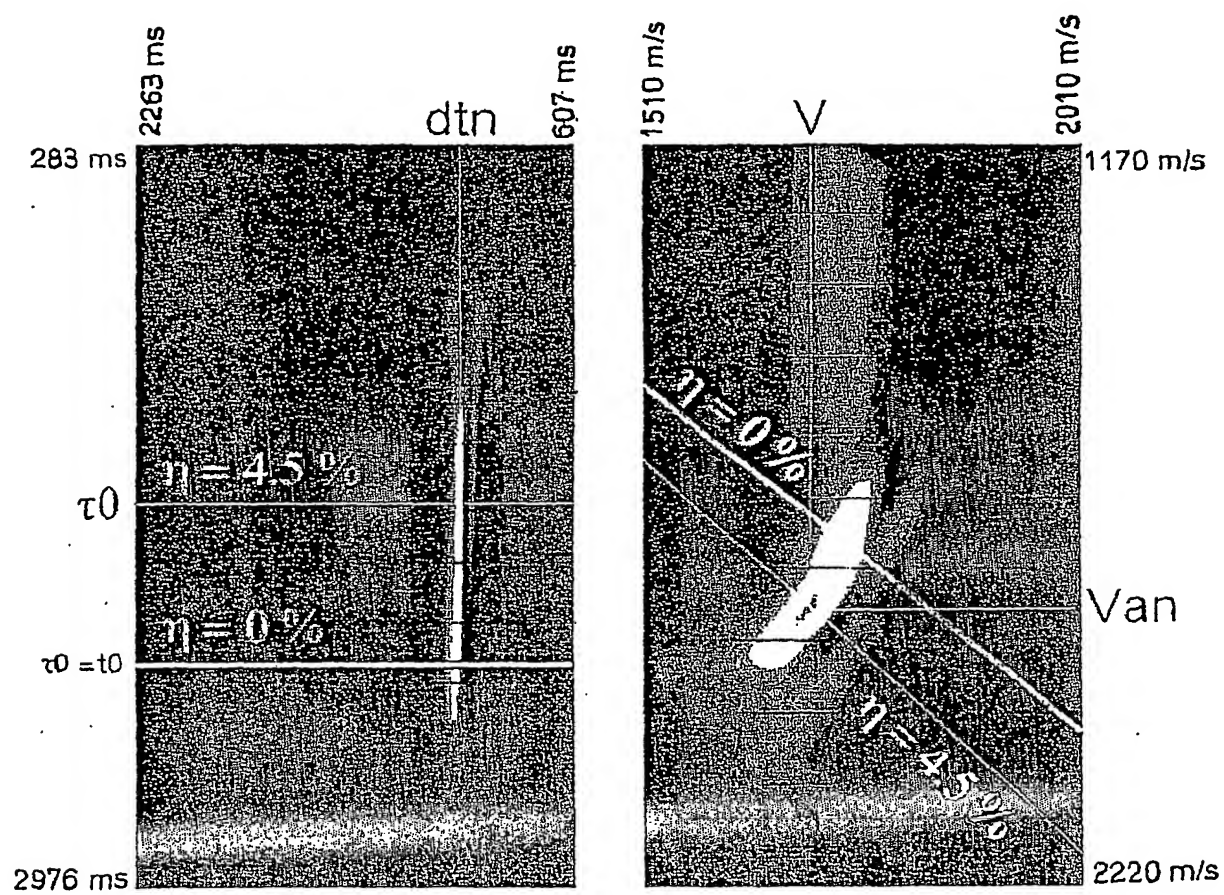


FIG. 3b

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FIG. 4

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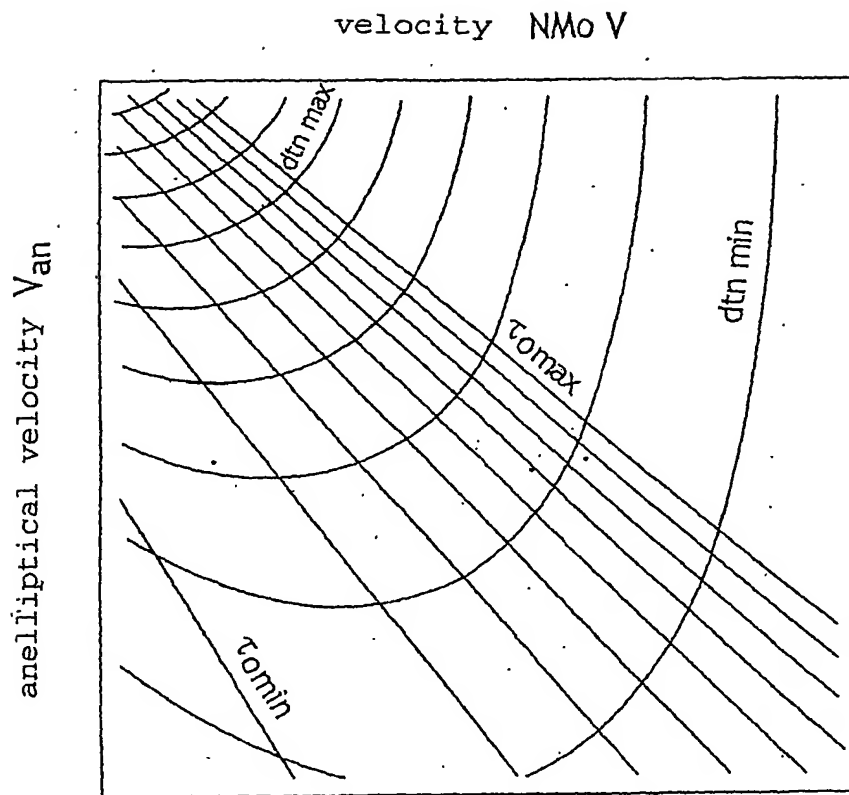
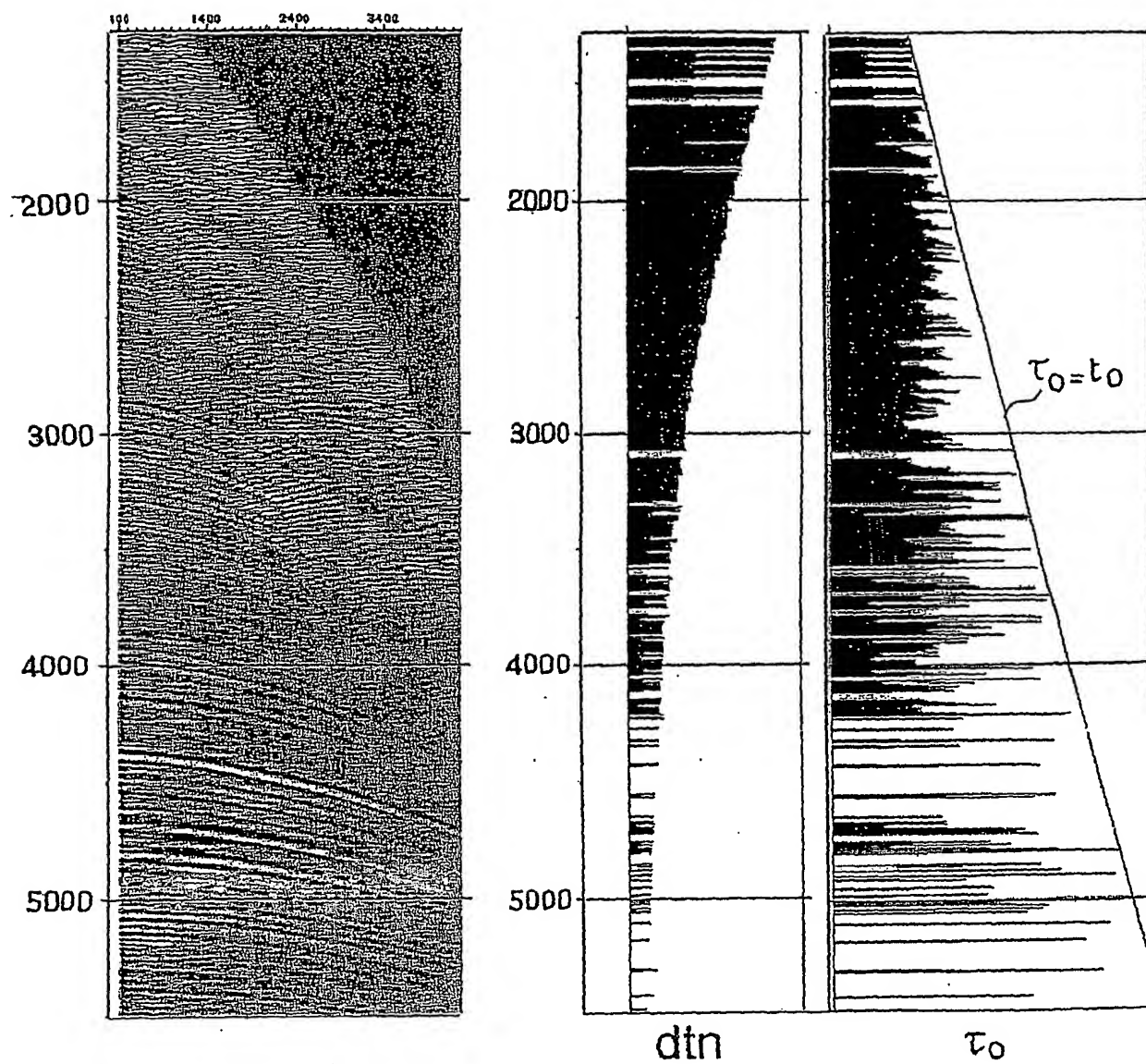
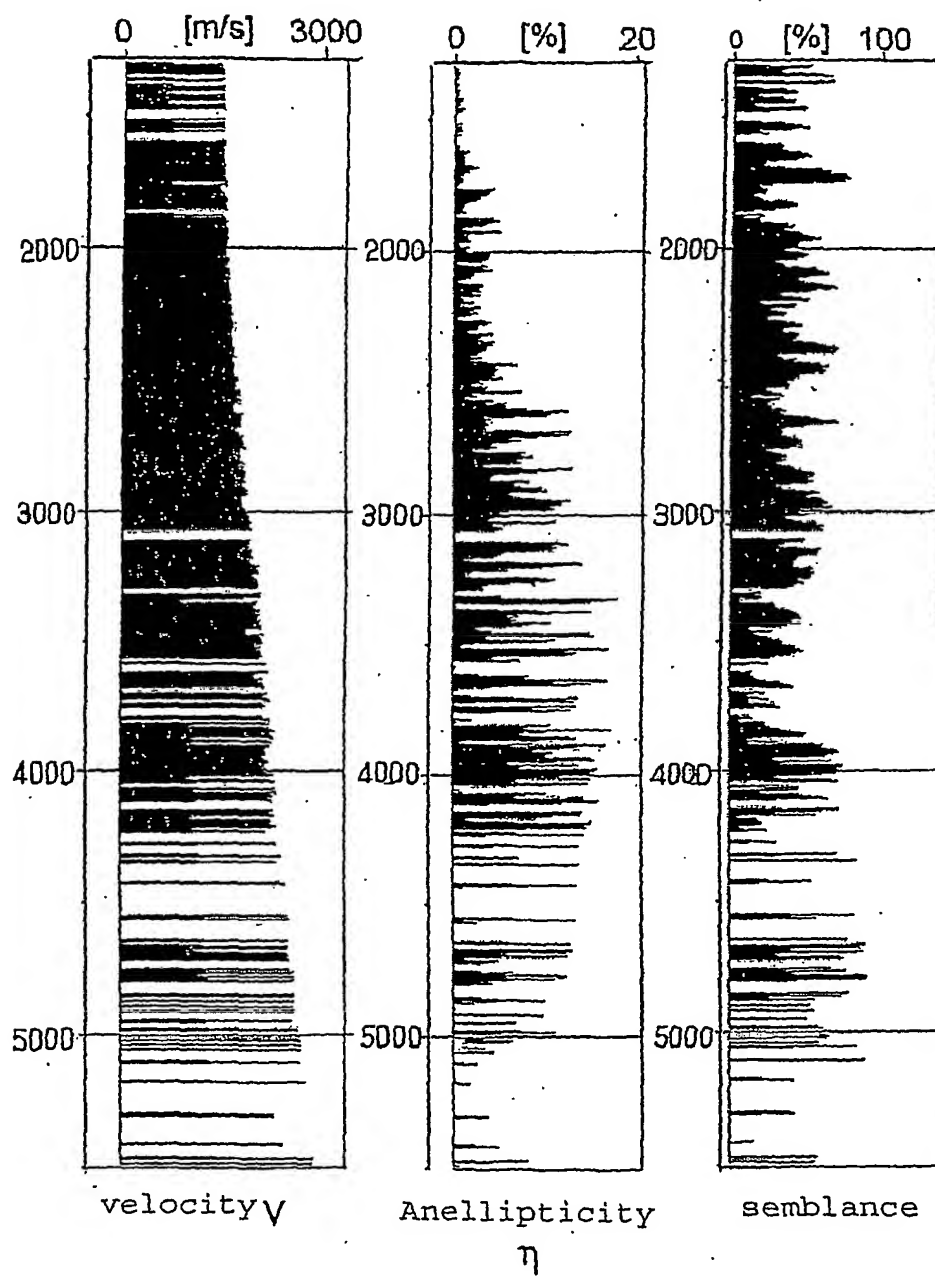


FIG.5

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FIG. 6

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FIG. 7

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FIG. 8a

1a

**Initialise**

- Determine limits of the analysis volume ( $dt_n$ ,  $\tau_0$ ,  $t_0$ )
- Calculate NMO corrections  $CORR_{NMO}$  for all offsets and for all nodes ( $dt_n$ ,  $\tau_0$ )
- Calculate corridor limits of the analyses made

2a

**For each gather of traces at midpoints**

3a

**For each node ( $dt_n$ ,  $\tau_0$ )****For each  $t_0$  along the corridor:**

- Application of NMO corrections  $CORR_{NMO}$
- Calculate the semblance
- Calculate the summation in near offsets

4a

**For each picking time  $t_0$** 

Search for the maximum semblance in the corridor and the corresponding node ( $dt_n$ ,  $\tau_0$ )

Does the node ( $dt_n$ ,  $\tau_0$ ) correspond to a stack end?

YES

Create the  $dt_n(t_0)$ ,  $\tau_0(t_0)$  and semblance ( $t_0$ ) series

5a

**Select and adjust pickings**

- Increasing sort of the semblance series ( $t_0$ )
- Reject pickings too close to pickings with strong semblance
- Adjust selected values ( $dt_n$ ,  $\tau_0$ ) by parabolic interpolation
- Reject pairs ( $dt_n$ ,  $\tau_0$ ) for which the Dix interval velocities with pairs ( $dt_n$ ,  $\tau_0$ ) with the strongest semblance, are unacceptable

6a

**Conversion of pickings ( $dt_n$ ,  $\tau_0$ ) into  $V(t_0)$  and  $\eta(t_0)$  laws**



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FIG. 8b

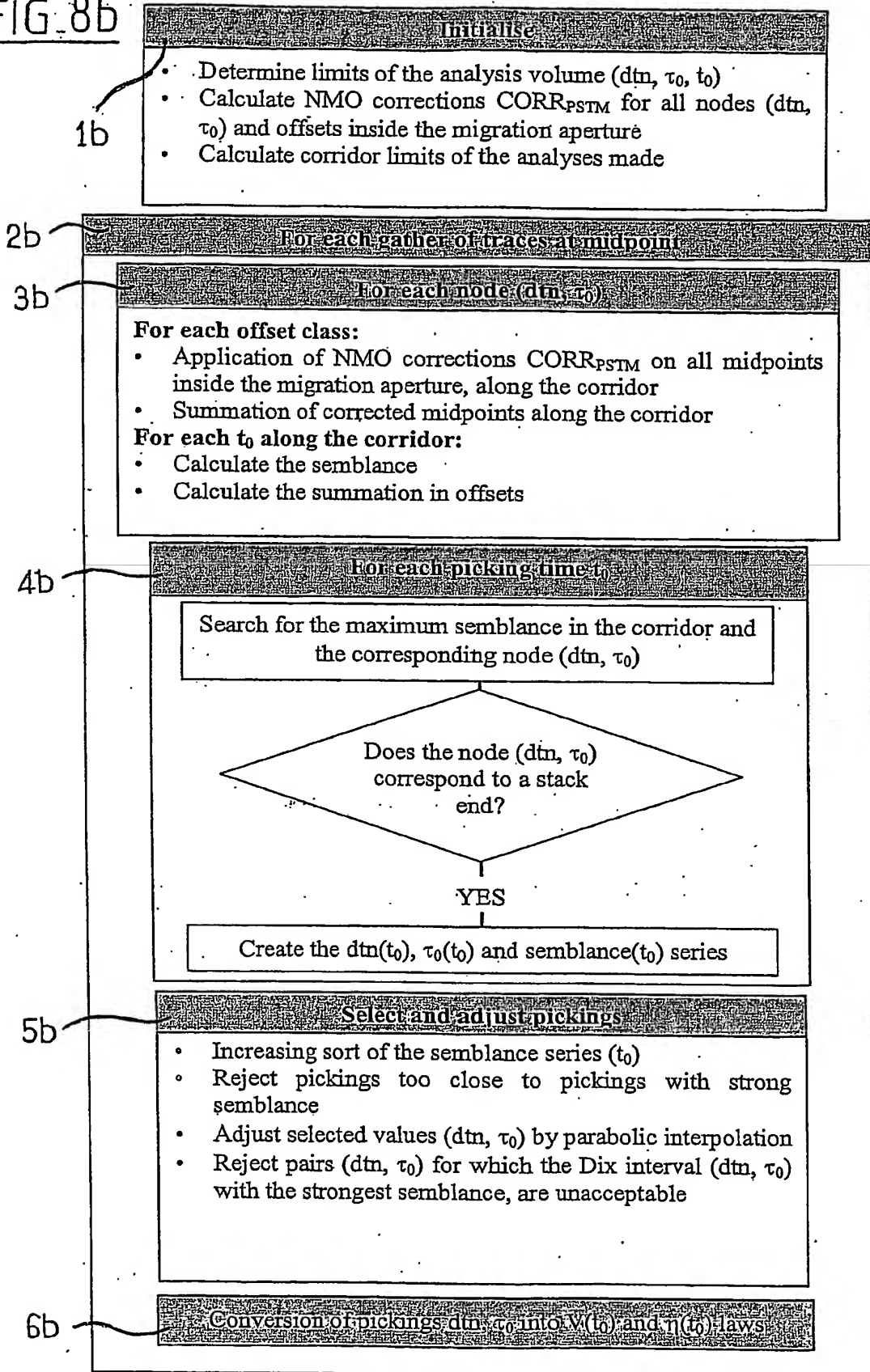


FIG. 9

